

## **Abstract**

**The beam method and the “slice” method for ship modeling are melded. The method uses a detailed ship model in the ship section immediately surrounding the system or equipment under study and a beam model for the portions of the ship away from the detailed ship section. This combined method has the advantage of providing a detailed section of the ship in the area of interest which allows for good system and equipment level modeling, and a course beam model of the ship everywhere else, which, in turn, allows for the ships mass and stiffness and hence frequency spectrum to be accurately represented.**